

## Product datasheet for **RG204545**

### CYC1 (NM\_001916) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CYC1 (NM_001916) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CYC1
Synonyms:	MC3DN6; UQCR4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204545 representing NM_001916 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCAGCTGCGGCTTCGTTTCGCGGGGTAGTGTGGGCCCGCGGGGCGGGGGCTCCCGGGCGCGC  
GTGCCCGGGTCTGCTGTGCAGCGCGGGCCCGGGCAGCTCCCGCTACGGACACCTCAGGCAGTGGCCTT  
GTCGTCGAAGTCTGGCCTTCCCGAGGCCGAAAGTGATGCTGTCAGCGCTGGGCATGCTGGCGCAGGG  
GGTGCGGGGCTGGCCGTGGCTCTGCATTCGGCTGTGAGTGCCAGTGACCTGGAGCTGCACCCCCCAGCT  
ATCCGTGGTCTCACCGTGGCCTCCTCTCTCTTCTTGACCACACCAGCATCCGGAGGGTTCCAGGTATA  
TAAGCAGGTGTGCGCCTCCTGCCACAGCATGGACTTCGTGGCCTACCGCCACCTGGTGGCGTGTGCTAC  
ACGGAGGATGAAGCTAAGGAGCTGGCTGCGGAGGTGGAGGTTCAAGACGGCCCAATGAAGATGGGGAGA  
TGTTTCATGCGGCCAGGAAGCTGTTTCGACTATTTCCAAAACCATACCCCAACAGTGAGGCTGCTCGAGC  
TGCCAACAACGGAGCATTGCCCCCTGACCTCAGCTACATCGTGCGAGCTAGGCATGGTGGTGGAGACTAC  
GTCTTCTCCCTGCTCACGGGCTACTGCGAGCCACCCACGGGGTGTCACTGCGGGAAGGTCTCTACTTCA  
ACCCCTACTTTCTGGCCAGGCCATTGCCATGGCCCTCCCATCTACACAGATGTCTTAGAGTTTGACGA  
TGGCACCCAGCTACCATGTCCCAGATAGCCAAGGATGTGTGCACCTTCTGCGCTGGGCATCTGAGCCA  
GAGCACGACCATCGAAAACGCATGGGGCTCAAGATGTTGATGATGATGGCTCTGCTGGTGGCCCTGGTCT  
ACACATAAAGCGGCACAAGTGGTCAGTCTGAAGAGTCGGAAGCTGGCATATCGGCCGCCCAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >RG204545 representing NM\_001916  
Red=Cloning site Green=Tags(s)

MAAAAASLRGVVLGPRGAGLPGARARGLLCSARPGQLPLRTPQAVALLSSKSGLSRGRKVMLSALGMLAAG  
 GAGLAVALHSASDLELHPPSYPWHRGLLSSLDHTSIRRGFQYKQVCASCHSMDFVAYRHLVGVCY  
 TEDEAKELAAEVEVQDGNEDGEMFMRPGKLFDFPKYPNSEAARAANNALPPDLSYIVRARHGGEDY  
 VFSLLTGYCEPPTGVSLREGLYFNPFYFGQAIAMAPPIYTDVLEFDDGTPATMSQIAKDVCTFLRWASEP  
 EHDHRKRMGLKMLMMALLVPLVYTIKRHKWSVLKSRKLAYRPPK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001916

**ORF Size:** 975 bp

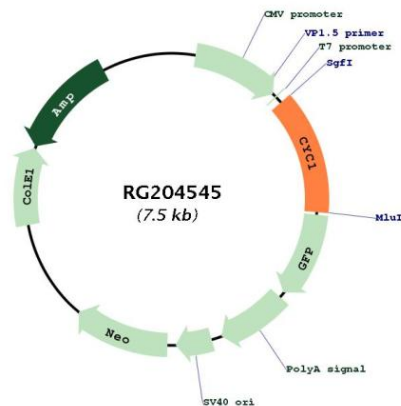
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001916.2</a> , <a href="#">NP_001907.2</a>
<b>RefSeq Size:</b>	1273 bp
<b>RefSeq ORF:</b>	978 bp
<b>Locus ID:</b>	1537
<b>UniProt ID:</b>	<a href="#">P08574</a>
<b>Cytogenetics:</b>	8q24.3
<b>Domains:</b>	Cytochrome_C1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Alzheimer's disease, Cardiac muscle contraction, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
<b>Gene Summary:</b>	This gene encodes a subunit of the cytochrome bc1 complex, which plays an important role in the mitochondrial respiratory chain by transferring electrons from the Rieske iron-sulfur protein to cytochrome c. Mutations in this gene may cause mitochondrial complex III deficiency, nuclear type 6. [provided by RefSeq, Dec 2013]

## Product images:



Circular map for RG204545